

1. 1 2G Antenna report

	EGSM900			Remarks	DCS1800			Remarks
Channel	1	62	120		512	698	885	
TRP(dBm)	26.8	25.8	25.1		22.1	22.8	23.8	
TIS(dBm)			-100.1				-101.5	
	EGSM850			Remarks	PCS1900			Remarks
Channel	128	190	250		512	661	810	
TRP(dBm)	26.5	27.1	27.7		24.4	24.2	23.8	
TIS(dBm)			-100.7				-102.1	

1. 2 3G Antenna report

	WCDMA2100			Remarks	WCDMA1900			Remarks
Channel	10562	10700	10838		9662	9800	9938	
TRP(dBm)	17.1	16.8	16.1		17.3	17.2	17.1	
TIS(dBm)			-102.8				-102.3	
	WCDMA850			Remarks	WCDMA900			Remarks
Channel	4357	4408	4458		2937	3008	3088	
TRP(dBm)	16.5	16.8	16.4		17.1	16.5	15.8	
TIS(dBm)			-101.7				-100.5	
	WCDMA1700			Remarks				
Channel	1538	1637	1738					
TRP(dBm)	14.1	14.8	15.9					
TIS(dBm)			-102.1					

1.3 4G Antenna report

	LTE-B1			Remarks	LTE-B2			Remarks
Channel	18100	18300	18500		18650	18900	19150	
TRP(dBm)	17.7	17.3	17.1		18.2	18	17.5	
TIS(dBm)			-90.5				-89.7	
	LTE-B3			Remarks	LTE-B4			Remarks
Channel	19250	19575	19900		20000	20175	20350	
TRP(dBm)	14.1	15.8	16.7		14	14.7	15.6	
TIS(dBm)			-90.1				-88.7	
	LTE-B5			Remarks	LTE-B7			Remarks
Channel	20450	20525	20600		20850	21100	21350	
TRP(dBm)	17.1	17.3	17.2		16.8	16.7	17.1	
TIS(dBm)			-85.1				-88.9	
	LTE-B8			Remarks	LTE-B12			Remarks
Channel	21500	21625	21750		23060	23095	23130	
TRP(dBm)	16.8	16.7	16.1		12.8	13.1	13.9	
TIS(dBm)			-85.7				-85.8	

1. 4 4GAntenna report

	LTE-B17			Remarks	LTE-B20			Remarks
Channel	23780	23790	23800		24200	24300	24400	
TRP(dBm)	13.2	13.3	13.9		16.5	16.8	16.4	
TIS(dBm)			-85.9				-87.1	
	LTE-B28AB			Remarks	LTE-B38			Remarks
Channel	27260	27435	27610		37850	38000	38150	
TRP(dBm)	12.7	13.1	13.5		16.7	17.3	16.7	
TIS(dBm)			-85.7				-90.5	
	LTE-B39			Remarks	LTE-B40			Remarks
Channel	38350	38450	38550		38750	39150	39550	
TRP(dBm)	17.1	16.9	16.8		17.1	16.5	16.6	
TIS(dBm)			-90.5				-90.7	
	LTE-B41			Remarks	LTE-B66			Remarks
Channel	40240	40620	40625		132022	132333	132622	
TRP(dBm)	16.5	16.7	16.9		15.7	16.1	16.4	
TIS(dBm)			-90.4				-89.5	

1. 5 Antenna gain

Polarization	Horizontal and Vertical
Impedance	50 Ohm
Manufacture	SHENZHEN SHIXIN ZHONGXIN TECHNOLOGY.CO.,LTD

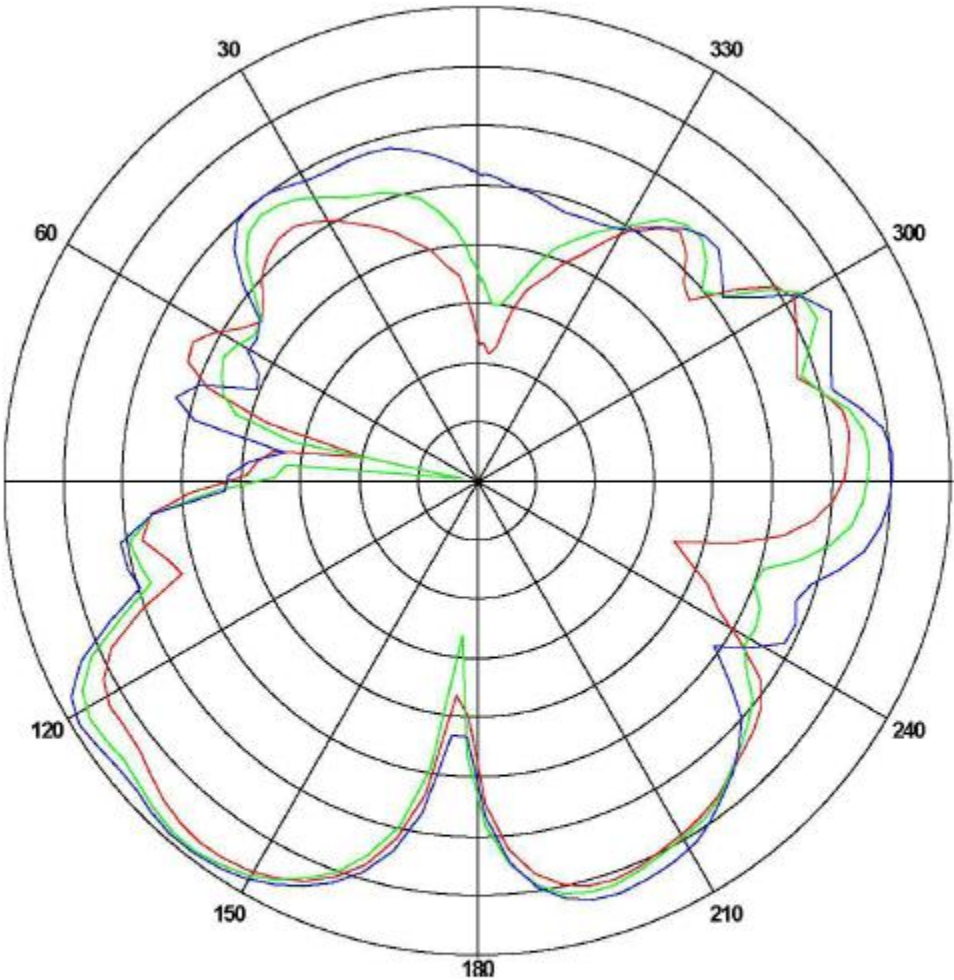
2G Antenna gain	2G:GSM850: 0.2dBi GSM900: 0.3dBi DCS1800: 0.7dBi PCS1900:0.6dBi
3G Antenna gain	B1: 0.7dBi B2:0.6dBi B4:0.7dBi B5: 0.2dBi B8: 0.3dBi
4G Antenna gain	B1: 0.7dBi B2:0.6dBi B3:0.7dBi B4:0.7dBi B5: 0.2dBi B7: 0.5dBi B8: 0.3dBi B12:-0.1dBi B17:-0.1dBi B20:0.2dBi B28AB:-0.1dBi B34:0.7dBi B38:0.5dBi B39:0.6dBi B40:0.6dBi B41:0.5dBi B66:0.7dBi
WIFI Antenna gain	2.4G: 0dBi
BT Antenna gain	0dBi

1. 6 3D Radiation pattern 2.4G

Horizontal: 2400 MHz 2450 MHz 2500 MHz

Power (dBm)

Max: 0 Min: -40 Scale: 5/div



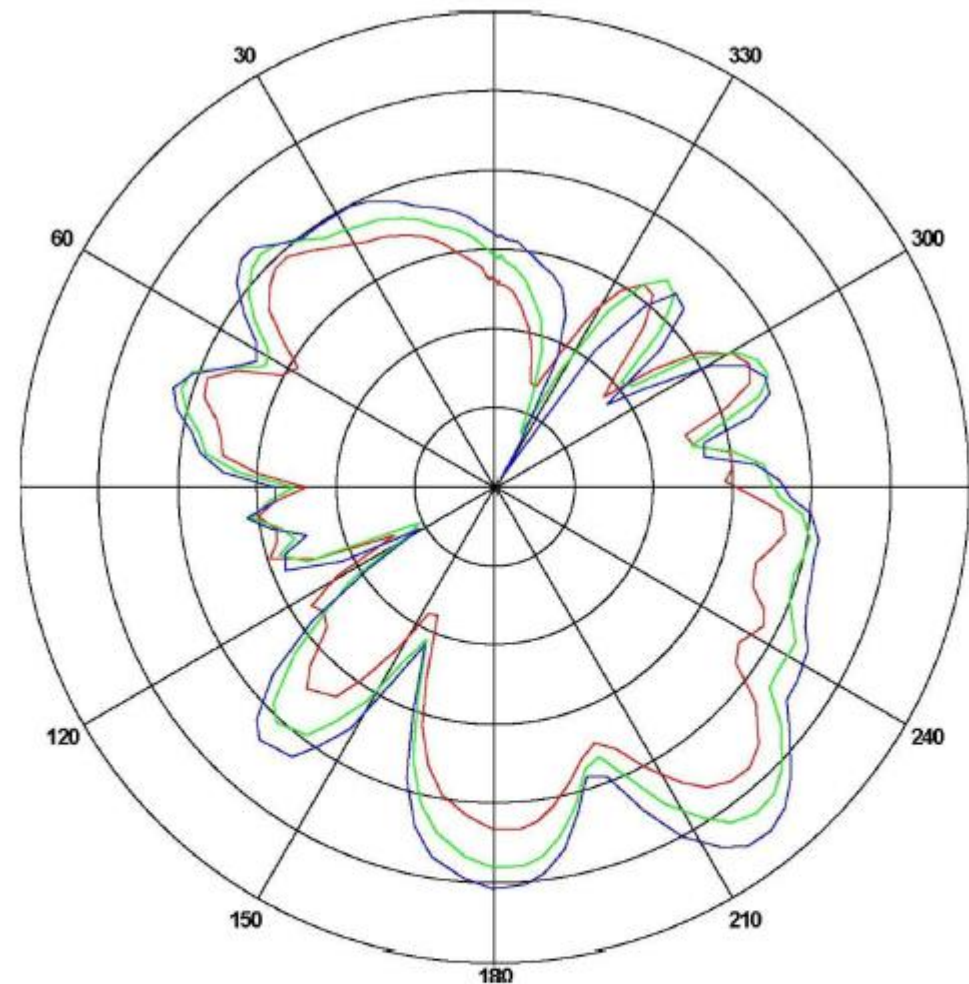
Frequency (MHz)	Gain(dBi)		
	Max.	Min	Avg.
2400	-1.66179	-30.2813	-8.78713
2450	-0.847811	-38.7595	-7.87812
2500	-0.000000	-23.6329	-6.99139

1. 7 3D Radiation pattern 2.4G

Vertical: 2400 MHz 2450 MHz 2500 MHz

Power (dBm)

Max: 0 Min: -30 Scale: 5/div

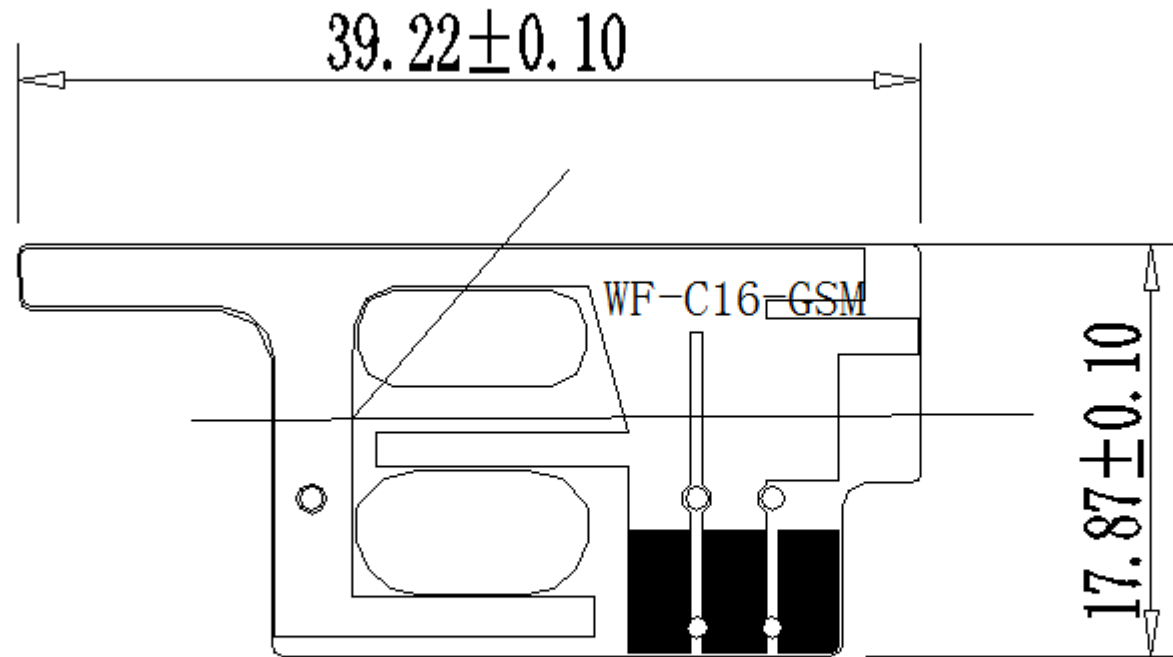


Frequency (MHz)	Gain(dBi)		
	Max.	Min	Avg.
2400	-6.1623	-23.1425	-12.5295
2450	-3.6534	-26.2866	-10.6699
2500	-2.21101	-29.4381	-9.58526

Center Frequency	Horizontal			Vertical		
	2400MHz	2450MHz	2500MHz	2400MHz	2450MHz	2500MHz
	-1.66	-0.84	0	-6.16	-3.65	-2.21
MAX. Gain	0					
Polarization	Horizontal and Vertical					
Impedance	50 Ohm					
Manufacture	SHENZHEN SHIXINZHONGXIN TECHNOLOGY.CO.,LTD					

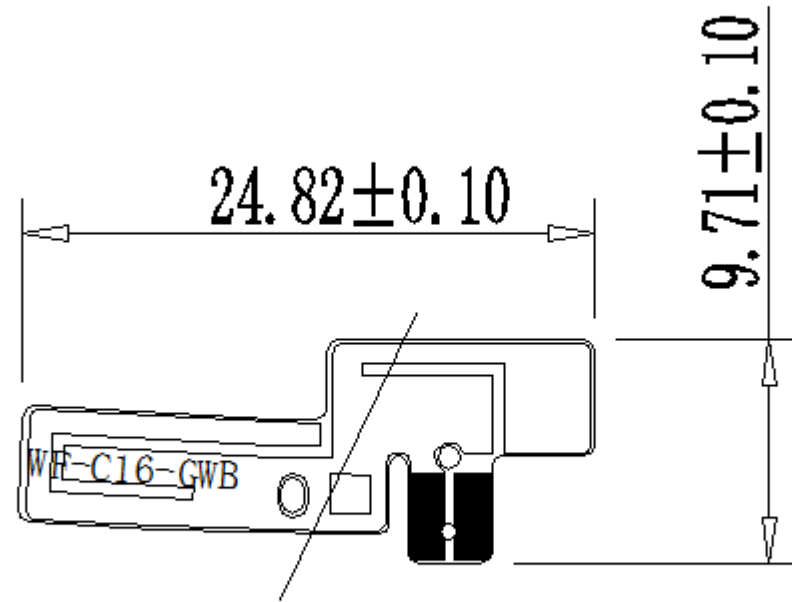
Antenna structure diagram

GSM/WCDMA/LTE antennas



Antenna structure diagram

GPS/WIFI/BT antenna



Antenna structure diagram

LTE graded antenna

